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M/EB 320/64
16 June 1964
Copy 1

MEMORANDUM FOR: Chief, Ballistic Missiles and Space Division, OSI

ATTENTION: [REDACTED]

THROUGH: Chief, Requirements Branch, Reconnaissance Group, CGS

FROM: Chief, CIA/PID (NPIC)

SUBJECT: Suspect Rocket Test Sites, Leningrad, USSR

REFERENCE: (a) Requirement C-SI-4-81,399
(b) CIA/PID Project C 832-64

1. This memorandum is in response to your requirement dated 12 May 1964 which requests a detailed photographic study of the two suspect rocket test sites at Leningrad and the names, locations and brief descriptions of other installations in the area which the subject installations might be connected with.

2. For the purposes of this memorandum, the two suspect sites will be referred to as Area 1 and Area 2 (see map). The possibly associated installations will be discussed in the final portion of the memorandum. All mensuration has been accomplished by the photo analyst, using scale factors and height factors derived from dimensions computed by TID/NPIC.

Area 1 is located at 60-12-40N 30-42-00E approximately 19 nautical miles (nm) northeast of the center of Leningrad. The facility is secured by a single fence measuring approximately 3,300 by 3,000 feet. The facility was not present on GX photography of [REDACTED] and was first seen [REDACTED]. The area is road served and is within an abandoned probable artillery projectiles range. The significant features within the facility are an approximately 30 foot high screen which extends 135 feet at its cord, two circular earth covered mounds approximately 50 feet in diameter, a probable mounded building 75 by 60 feet, one drive-through revetment with an inside diameter of 45 feet, a probable burn area, a blast scar 135 feet long and 40 feet wide, a blast scar 320 feet long and 80 feet wide, and a blast scar 130 feet long and 35 feet wide. All of these features appear on [REDACTED]. snow covered photography revealed three areas of heavy carbon depositing (a very dark image on snow covered photography). Based on time interval between exposures

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[] one of these areas had an active fire or blast lasting for at least 2.6 seconds. Heavy smoke accompanied the fire or blast. That area has been designated as a probable burn area. [] also revealed three areas of heavy carbon depositing. They were, with the lone exception of the probable burn area, different from those areas indicated in []. The accompanying line drawing (Figure 1) indicates the varying locations of the carbon depositing on the available photography.

If this area is involved in propellant testing, the testing would be done in cells rather than stands. No structure of any description is present at the apex of the blast scars. In each case, an apron with tie down points would be sufficient to test a solid motor. No such apron could be observed at the apex of the blast scars though either small scale or snow cover limit this analysis in all cases. A second possibility for propellant testing is the use of natural caves for tie down points. The possibility of that approach cannot be confirmed or negated on available photography.

No conclusions can be reached as to the association Area 1 has with any solid propellant program. The length of the long blast scars suggests the possibility of propellant testing. The circular earth mounded buildings are consistent in suggesting propellant testing. The screen, which has a number of striations (an accurate count is not possible due to the quality of the photography) is not suggestive of any known propellant testing. Present in [] the screen cannot be negated on available system photography. The drive-through revetment suggests a sensitive item but not necessarily propellants.

Area 2 (Figure 2) is secured by a double fence approximately 3,700 by 3,400 feet. It is located at 60-15-30N 30-45-00E approximately 23 nm northeast of the center of Leningrad. It is adjacent to the probable abandoned artillery projectiles range and is road served. The facility now consists of a probable construction support area, an administration area, and an operations area. The probable construction support area is outside the fence and consists of two barracks and at least seven shed type buildings. A third barracks building was removed between [].

The administration area is also outside of the double security fence. It consists of three buildings and a possible microwave tower.

The operations area consists of a bunkered, probable storage building; a revetted, step-roofed, possible three bay, 105 by 60 foot building; five "U"-shaped, cable or pipe fed, 55 foot thick, 20 foot high revetments with concrete surfaced aprons; a partially revetted, partially bunkered, 200 by 60 foot, probable control building; a possible vehicle van revetment which has a ramp-like road terminating at its closed end; an "L"-shaped revetment; and four shed-type buildings (one which serves as a probable guard house).

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The five "U"-shaped revetments (see perspective, Figure 3) are symmetrical in shape. Each has three distinct objects or structures abutting and centered on its inner rear wall. Each has a junction point for whatever is being emitted by the cable or pipe abutting its outer rear wall. In each case, the junction point is offset to the western side of the revetment. Each revetment covers a ground space of approximately 40,250 square feet.

The probable control building has a cable or pipe line leading to the "U"-shaped revetments from its easternmost end. It is not completely revetted or bunkered, though it appears as if the western (unprotected) end of the building will eventually be protected.

The revetted, possible three bay, step-roofed building (Figure 4) is probably involved in the handling of very sensitive materials. It is not directly involved in the testing of these materials since its open end faces a storage building. Whether the sensitive materials handled are solid propellant motors or any other explosive item cannot be determined. The revetment is approximately 60 feet thick and 25 feet high with a total ground space of approximately 51,450 square feet.

Area 2 can be negated in [REDACTED]. The first evidence of construction was visible in [REDACTED]. At that time, security and the probable construction housing area appeared complete; the administration area appeared to be under construction, the road network was approximately 75 percent complete; several cables or pipelines had been laid; construction was under way on the two major buildings in the operations area; and snow removal to and within the facility could be noted. [REDACTED] the road pattern appeared complete in the operations area, construction of the "U"-shaped revetments was initiated, and additional work was being done on the probable control building. During [REDACTED] another road was added (adjacent to the now existing administration area). By [REDACTED] construction had begun on the bunkered, probable storage building. At the same time, the administration area appeared complete, the hardstands in the "U"-shaped revetments appeared to be paved, and the revetted, step-roofed, possible three bay building first appeared. [REDACTED] all of the buildings appeared complete except the continuing earth covering process at the probable control building.

In conclusion, this facility, in conjunction with a plant producing solid propellant grains, fits the requirement for solid propellant testing. The heavy revetting, distances between buildings, and double security capability, definitely suggest a highly sensitive product. The timing of the construction of the facility [REDACTED] to the present) also connotes a function of current significance.

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The probable abandoned artillery projectiles range is characterized by self supporting lattice towers which extend at regular intervals for approximately 8 nm. The lattice towers were not present on the German photography of [redacted] Survey lines, on which the towers now appear, were present on the GX photography of 1943. The range in its entirety was visible on first coverage of the area in [redacted] The major reason for classifying the range as abandoned is that Area 2's most sensitive facilities would fall right in the midst of the range activity.

The Leningrad Munitions Loading and Storage Facility, Kraznamets at 60-02-00N 30-29-00E is road and rail served, has approximately 20 revetted storage buildings and warehouses, is double fenced, and has shown little change since [redacted] It is located approximately 13 nm south of Area 1.

Located 10 nm south of Area 1 is a very sensitive explosives handling facility at 60-03-15N 30-36-30E. It is road and rail served, is double secured, has ten revetted handling buildings, has a heavily revetted transshipment point with two overhead cranes, and has remained unchanged on [redacted] photography. Though there is some evidence of its presence on GX photography of [redacted] poor quality photography reveals that the facility was not as elaborate as most recent material shows it.

Located approximately nine nm southwest of Area 1 at 60-06-00N 30-29-10E is an unidentified plant which could produce explosives, munitions, or propellant grains. Not present on the [redacted] photography, the facility is road and rail served, is walled, and is connected to Munitions Loading and Storage Facility Kraznamets, which is approximately 4.5 nm to the south by road and rail. It has not shown any significant change on [redacted] photography.

3. The following enclosures are attached herewith:

- (a) Figure 1 - line drawing Area 1 (CIA/PID/MEB-P-503/64)
- (b) Figure 2 - line drawing Area 2 (CIA/PID/MEB-P-507/64)
- (c) Figure 3 - perspective "U"-shaped revetment (CIA/PID/MEB-P-505/64)
- (d) Figure 4 - perspective of revetted, step-roofed, possible three bay building (CIA/PID/MEB-P-506/64)
- (e) Location Map (CIA/PID/MEB-P-515/64)
- (f) Two 20x prints - [redacted]
- (g) Two 20x dup pos - [redacted]

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4. The photo analyst on this project is [REDACTED] who may be contacted on extension [REDACTED] should you have any further questions concerning this project.

5. This project is considered to be complete.

[REDACTED]

Enclosures: (referenced above)

- 1 - Four drawings
- 2 - One map
- 3 - Two prints
- 4 - Two dup pos

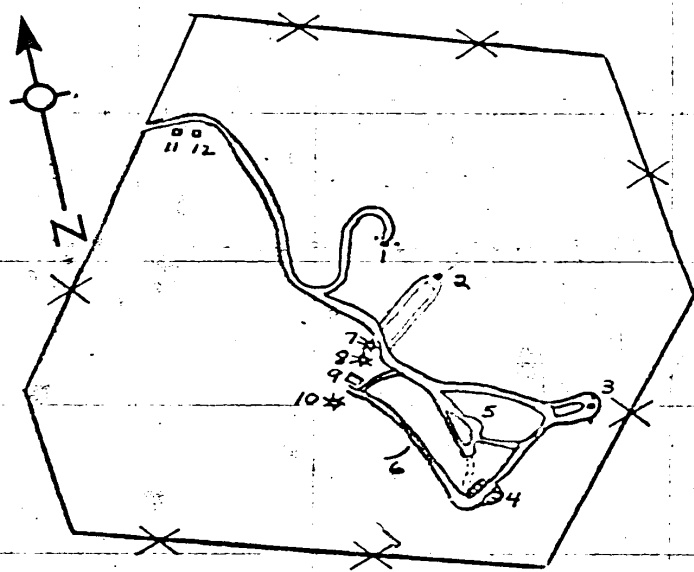
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Leningrad
Suspect Rocket Test Area #1
60-12-40N 30-42-00E



1. Blast scar 135' long
2. Blast scar 320' long
3. Blast scar 130' long
4. Drive-thru revetment
diameter, carbon
5. Probable burn area fire and
smoke
6. Screen 135' long x 30' high
7. Probable mounded building
75' x 60'
8. Mounded building 50' x 50'
9. Flat roofed building 80' x 30'
10. Mounded building 50' x 50'
11. Shed 20' x 20'
12. Shed 20' x 20'

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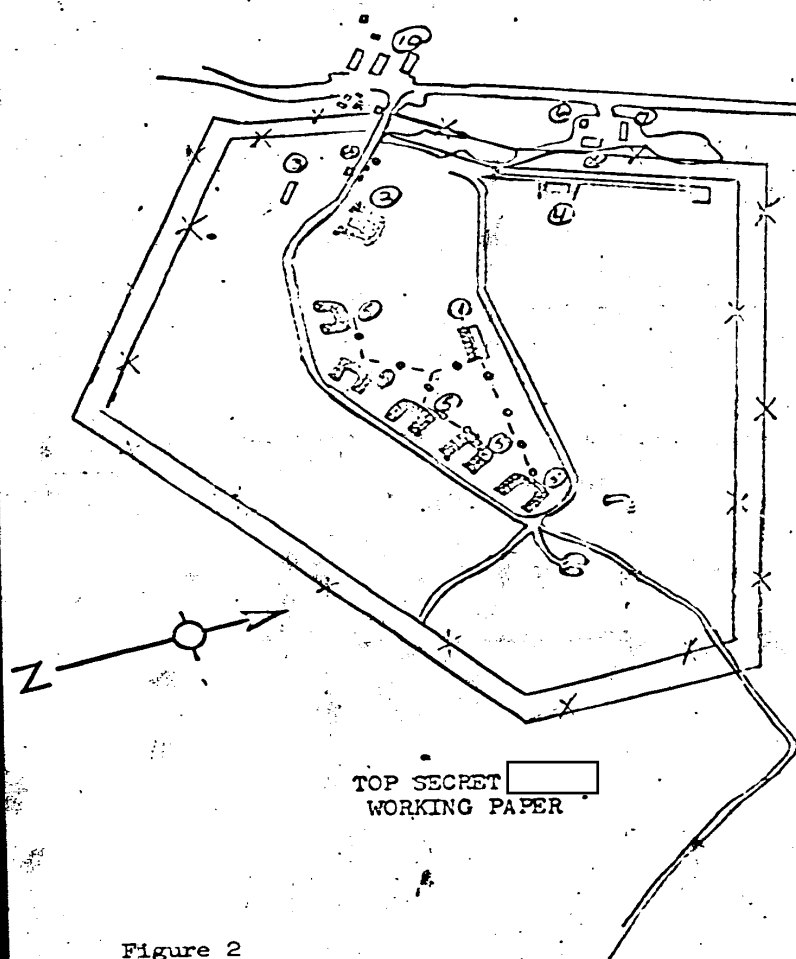
Figure 1

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Leningrad Suspect Rocket Test
Area #2
60-15-30N 30-45-00E



1. Probable Control Building
200' x 60'
2. Step-roofed building:
105' x 40' x 20' with wing
105' x 20'
3. Storage building 160' x 55'
4. Storage bunker 135' x 40'
5. "U"-shaped revetments 55' thick
20' high
6. Possible guard house 35' x 35'
7. Hipped roof building 160' x 45'
8. Administration building 75' x
30'
9. Flat roofed building 60' x 30'
10. Hipped roof buildings 160' x 45'
(2). The third was removed
between

--- = Cable or pipeline

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Figure 2

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U-Shaped Revetment

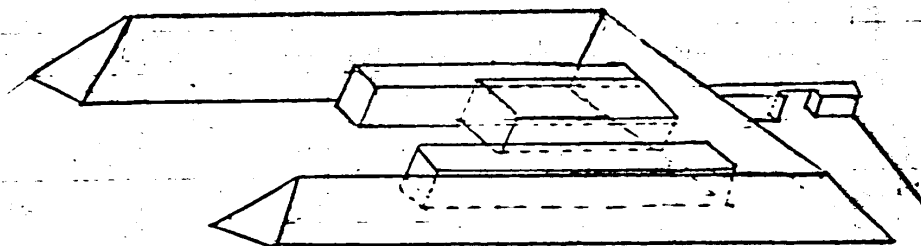


Figure 3

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Revetted, Step-Roofed Building

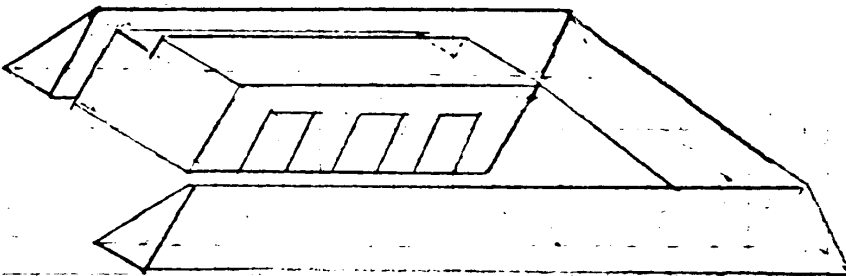


Figure 4



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Leningrad Suspect Rocket Test
Area #12
691530N-304500E

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Leninrad Suspect Rocket Test
Area # 1
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